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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference BP108687	FOR FURTHER ACTION See Form	ACTION See Form PCT/IPEA/416		
International application No.	International filing date (day/month/year)	Priority date (day/month/year)		
PCT/FI 2004/000212	07.04.2004	10.04.2003		
International Patent Classification (IPC) or		10.04.2003		
G03G 5/00, G03G 7/00,	B41M 5/00, B41M 7/00,	D21H 19/32		
Applicant				
Finnish Chemicals Oy	et al			
and the ce state of the control of the	liminary examination report, established by the summitted to the applicant according to Article	his International Preliminary Examining e 36.		
2. This REPORT consists of a total or	of 5 sheets, including this cover	er sheet.		
This report is also accompanied by	ANNEXES, comprising:			
a. (sent to the applicant of	and to the International Bureau) a total of	1		
		sheets, as follows: we been amended and are the basis of this report		
and/or sheets c Administrative	containing rectifications authorized by this A	uthority (see Rule 70.16 and Section 607 of the		
beyond the disc	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.			
b, (sent to the Internation				
readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4. This report contains indications rela	ating to the following items:			
Box No. I Basis of t				
Box No. II Priority		ļ		
Box No. III Non-estat	blishment of opinion with regard to novelty,	inventive step and industrial applicability		
	mity of invention	approachity		
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain do	ocuments cited	on statement		
Box No. VII Certain de	efects in the international application			
Box No. VIII Certain ob	bservations on the international application			
Date of submission of the demand	Date of completion	con:		
	Date of completion	of this report .		
27.09.2004	10.02.2005			
Name and mailing address of the IPEA/SE Patent- och registreringsverket	Authorized officer			
Box 5055	1			
S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Bengt Chris	stensson/MP		
Form PCT/IPEA/409 (cover sheet) (Ignuary 2	Telephone No. +46	8 782 25 00		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI 2004/000212

В	ox No. I	Basis of the report .	
1.	With	regard to the language, this report is based on the international application in the language in which it was filed, univise indicated under this item.	less
		This report is based on a translation from the original language into the following language which is the language of a translation furnished for the purposes of:	
		international search (under Rules 12.3 and 23.1(b))	
		publication of the international application (under Rule 12.4)	
		international preliminary examination (under Rules 55.2 and/or 55.3)	
2.	Jurnis	regard to the elements of the international application, this report is based on (replacement sheets which have be hed to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally file re not annexed to this report):	een ed"
	M	the international application as originally filed/furnished	
		the description:	
		pages as originally filed/furnished	
	•	pages* received by this Authority on	
		pages* received by this Authority on	
	Ш	the claims:	
		pages as originally filed/furnished pages* as amended (together with any statement) under Article 19	
		the amended (together with any statement) diluci Afficie 1:	9
		pages* received by this Authority on pages* received by this Authority on	
	\Box	the drawings:	
		pages as originally filed/furnished	
		pages* received by this Authority on	
		pages* received by this Authority on	
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
3.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, Nos.	
		the sequence listing (specific):	
-		any table(s) related to the sequence listing (specify):	-
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not be made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Ru 70.2(c)).	en lle
		the description pages	
		the description, pages	
		the claims, Nos.	
		the drawings, sheets/figs	ı
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
*	If item	applies, some or all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

 Statement

Novelty (N)	Claims	1-9	· · · · · · · · · · · · · · · · · · ·	YES
	Claims			NO
Inventive step (IS)	Claims	1-9		YES
	Claims			NO
Industrial applicability (IA)	Claims	. 1-9		YES
industrial applicationity (IA)	Claims	1-9		NO
				

2. Citations and explanations (Rule 70.7)

The invention

The present invention concerns a method for using a polymer coated paper or board as a printing substrate. The invention also concerns the printed product and the use of a coating on paper or board.

The object of the invention is a technique allowing repeated use of the printing substrate as such. It should be possible to remove the print from the printing surface by simple means without damaging the surface.

The aim is met in that the substrate has a surface of polysiloxane. The substrate is repeatedly used by removing printing ink with a solvent from the surface and by subsequently reprinting the surface that has been cleaned of printing ink.

Cited document

D1) US3250614, A1

Methods and materials for removing sensitizing dyes from electrophotographic prints are already known from D1 (column 1, lines 11-16). The purpose of this invention is to remove the dyes without damaging the image material (column 1, lines 62-65). An electrophotographic element consists of a conductive material and a nonconductive material such as

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box $\,V\,$

paper or wood. There is also a photoconductive layer covering the nonconductive material. The photoconductive layer comprises a resinous binder such as a silicone resin (column 2, lines 43-57). According to example 3 (column 4, lines 22-39), a xerographic print is made by depositing toner material onto a photoconductive material. Acetone removes the print completely, without damaging the image material or coating.

Analysis

D1 is cited in the International Search Report as a document of particular relevance and is now considered to show the closest background art. The reason for this review is that claim 1 specifies that the printing ink from the surface already printed is removed.

These features are not revealed in D1. According to D1, the dyes are <u>selectively</u> removed while leaving the <u>print or image intact</u>. Consequently, the materials and methods in D1 do not anticipate the technique of claim 1.

The method for a polymer-coated paper or board according to claim 1 is considered to give rise to an unexpected technical effect, i.e. removal of ink between the service cycles by washing with a solvent, without any other operations. Thus, this claim is not considered to describe a technique that is obvious to a person skilled in the art.

Claims 6, 9

Independent claims 6, 9 reveal the same technique as that of claim 1.

Conclusion

In accordance with the arguments stated above, the invention in claims 1-9 is novel, considered to involve an inventive step and has industrial applicability.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The description

The content of the introductory part of the description (p 1, lines 6-9) does not agree with that of the title and the claims.

The claims

In claim 1, the phrase "a substrate" is mentioned twice. By this wording, the claim describes two different substrates. However, on the basis of the description, the claim is interpreted as if only one substrate is described.